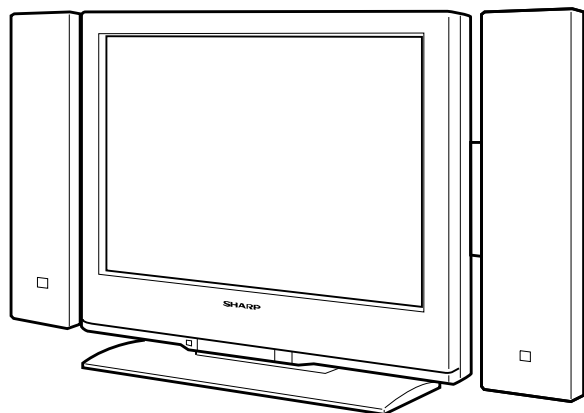


SHARP SERVICE MANUAL

S1101LC-20A2E



LCD COLOUR TELEVISION

MODEL LC-20A2E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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ADJUSTING PROCEDURE OF EACH SECTION

[1] Entering the MAIN side adjustment process mode

There are three methods below.

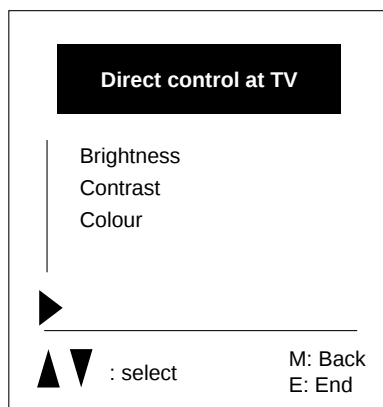
- 1) Press the "Adjustment process key" on the remote control after turning on the power.
- 2) Pressing both the MENU key and the TV/VIDEO key on the main body, turn on the power. Then, press the volume DOWN key and the tuning UP key at the same time.
- 3) Turn on the power with falling either KEY4 (pin 81 of microcomputer) or KEY5 (pin 82 of microcomputer) to "L".

[Note] For the method 3), the ROM is initialized at the same time. Therefore, 3) must be executed if IC2004 or IC2001 is changed. For 1) or 2), the main body only enters the MAIN side adjustment process.

[2] Entering the TUNER side adjustment process mode

- 4) Entering the TUNER side adjustment process

MENU key on the main body → Tuning UP key (remote control) → Select the position shown in the figure below and press the M key (remote control) within 1 second. → Enters the adjustment process.



[3] Adjustment

MAIN side adjustment (Press the "M" key to move the cursor and press the volume UP/DOWN key to make an adjustment.)

- Power supply voltage adjustment (+B 5V)
- Model setting
- Inch size setting
- COMMON BIAS adjustment of LCD module
- CUTOFF adjustment

TUNER side adjustment (Press the tuning UP/DOWN key to move the cursor and press the volume UP/DOWN key to make an adjustment.)

- Horizontal size adjustment (LCD adjustments)
- Video adjustment (other adjustments)

Y delay

Subcontrast

Subcolour

Subbrightness

Tint offset

AGC gain start

The TUNER side adjustment is possible. However, it is recommended to replace EAROM (I2).

		PAL/PAL60	SECAM	NTSC
RF	y delay	7	6	0
	tint offset	0	0	0
	sub contrast	2	2	0
	sub colour	25	25	0
AV1/ AV2	y delay	7	5	4
	tint offset	1	1	1
	sub contrast	0	2	0
	sub colour	30	30	20
AVS	y delay	7	5	1
	tint offset	1	1	1
	sub contrast	0	0	0
	sub colour	30	30	30
AGC gain start		27		

3-1. +B adjustment

Page 9 of MAIN side adjustment process +B-ADJ

Adjust the voltage of the pin 12 of SC901 the SUB PWB to 5.0V±0.05V.

3-2. Model setting

Page 9 of MAIN side adjustment process MODEL

Set to A2E.

3-3. Inch size setting

Page 9 of MAIN side adjustment process INCH SIZE

Set to 20.

3-4. COMMON BIAS adjustment of LCD module

Page 9 of MAIN side adjustment process COM BIAS

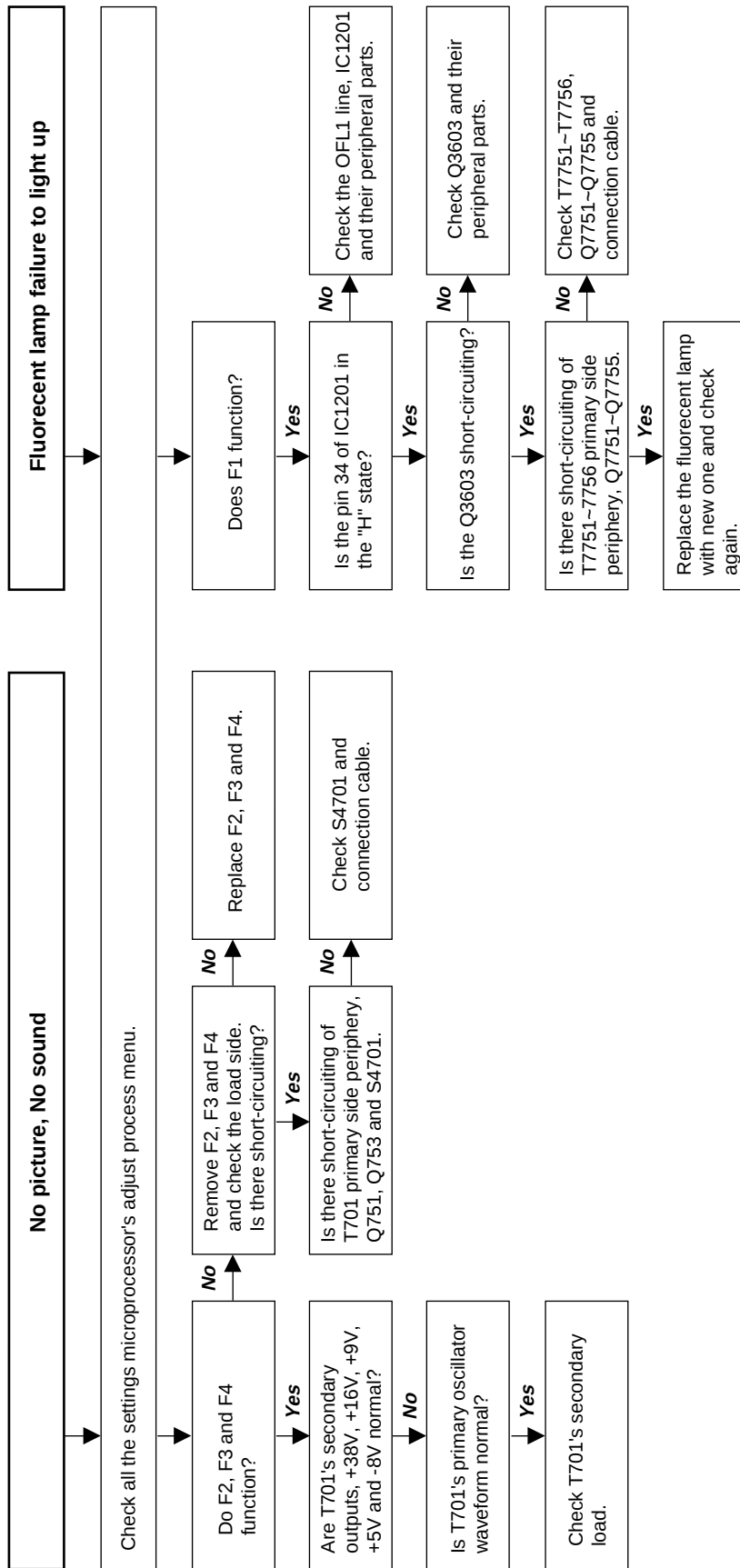
Input the picture of gray scale and adjust it so as to obtain the best contrast.

3-5. CUTOFF adjustment

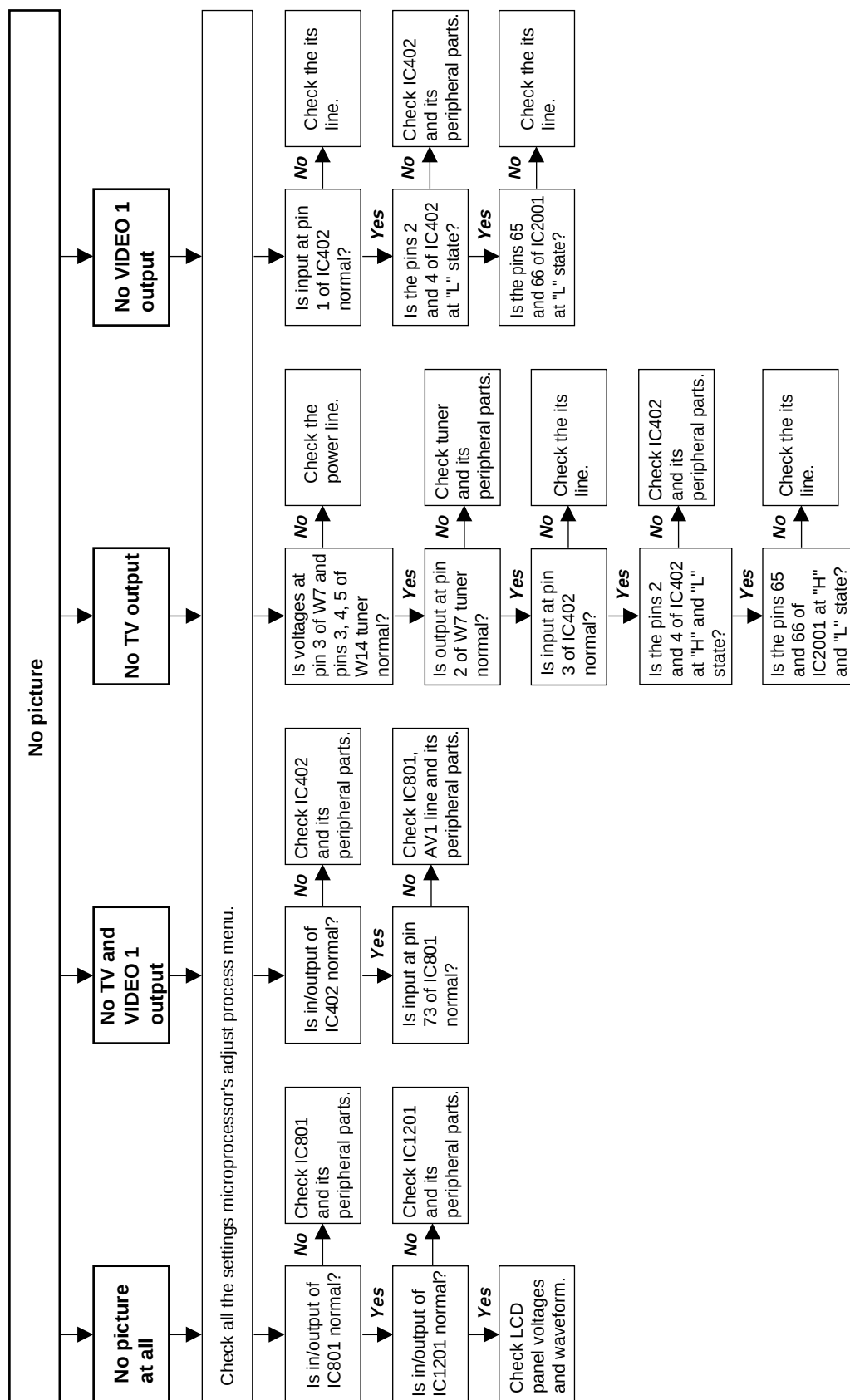
Page 9 of MAIN side adjustment process R CUTOFF, B CUTOFF

Adjust it so as to obtain the optimal colour balance.

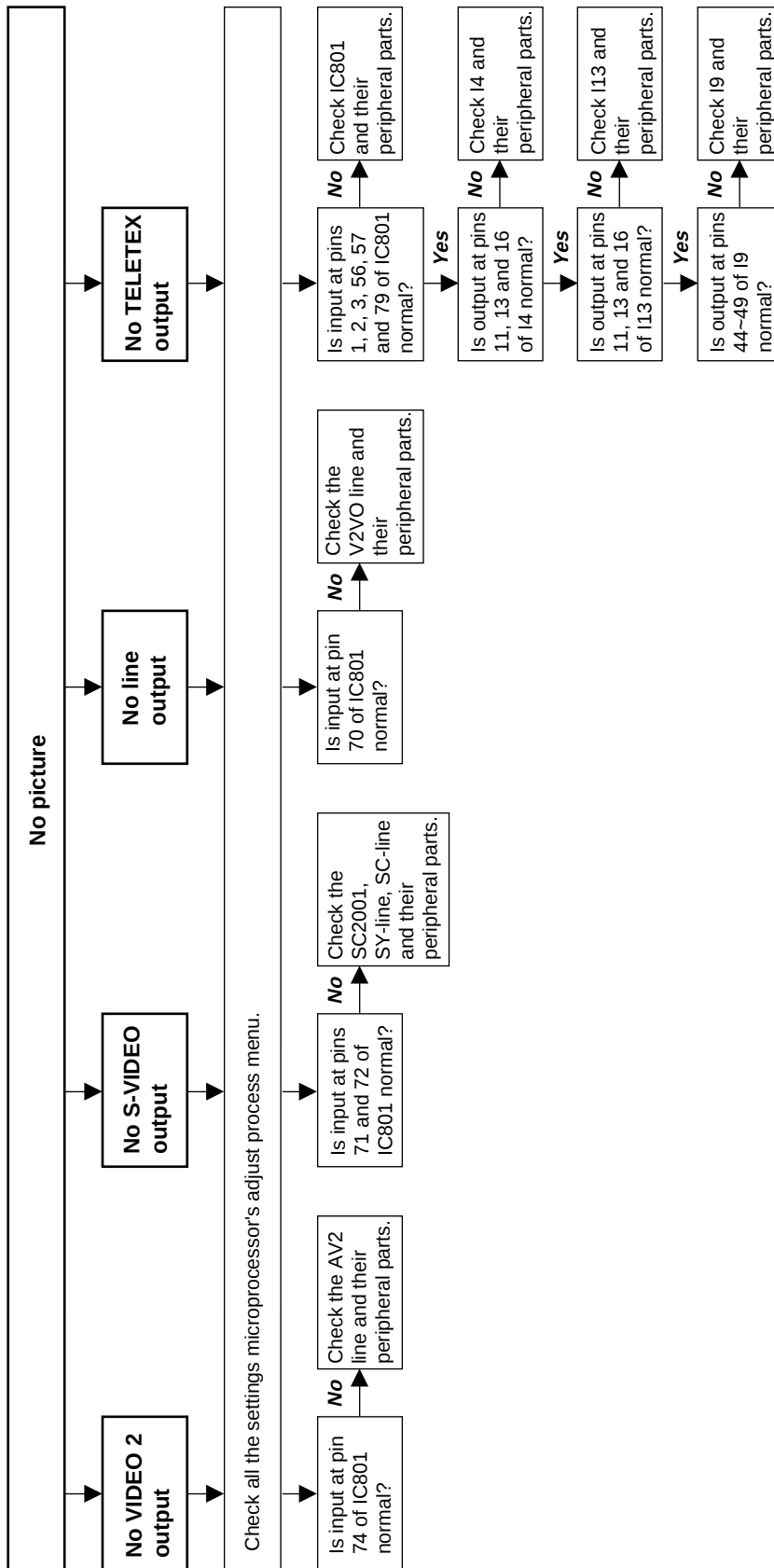
TROUBLE SHOOTING TABLE



TROUBLE SHOOTING TABLE (Continued)

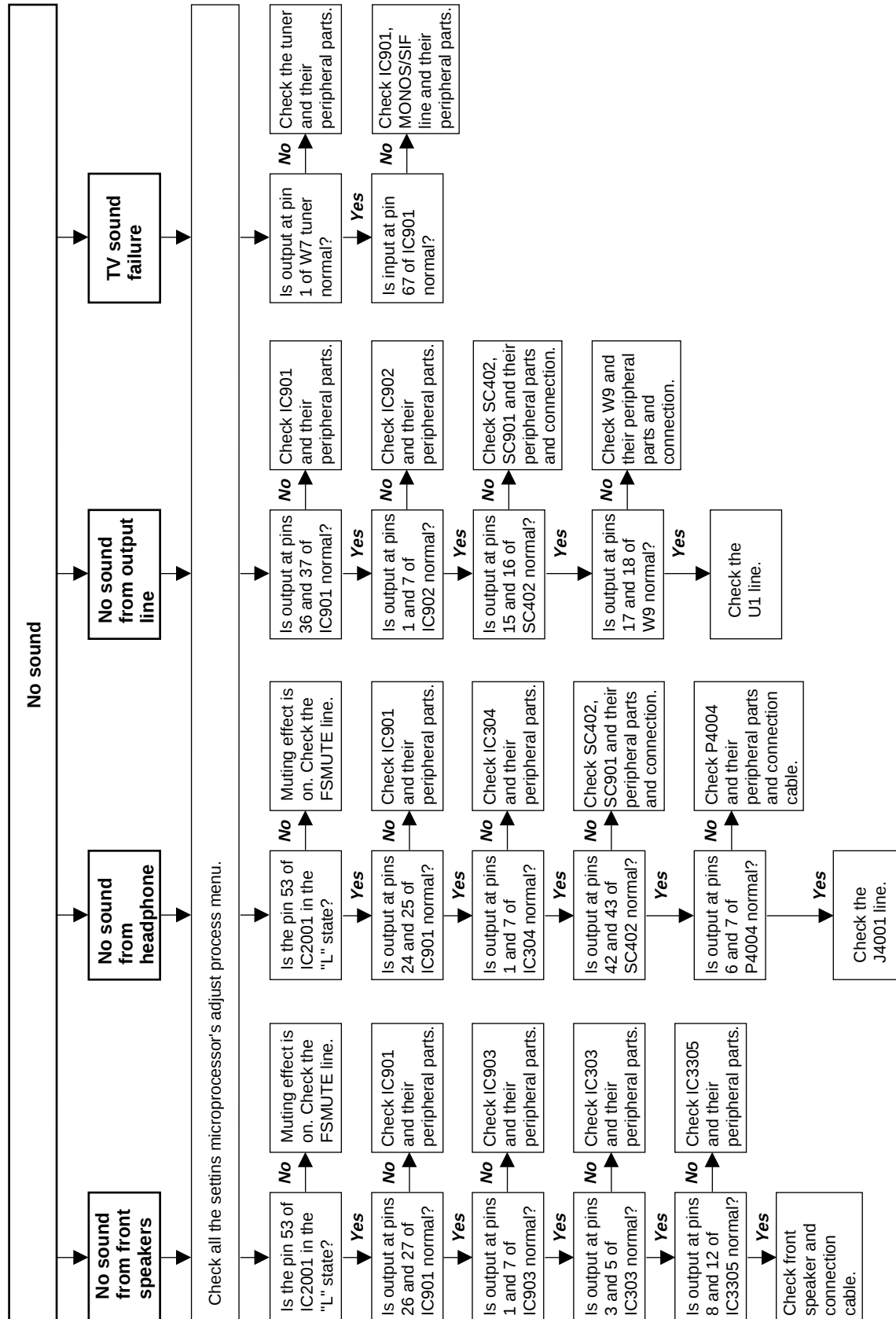


TROUBLE SHOOTING TABLE (Continued)



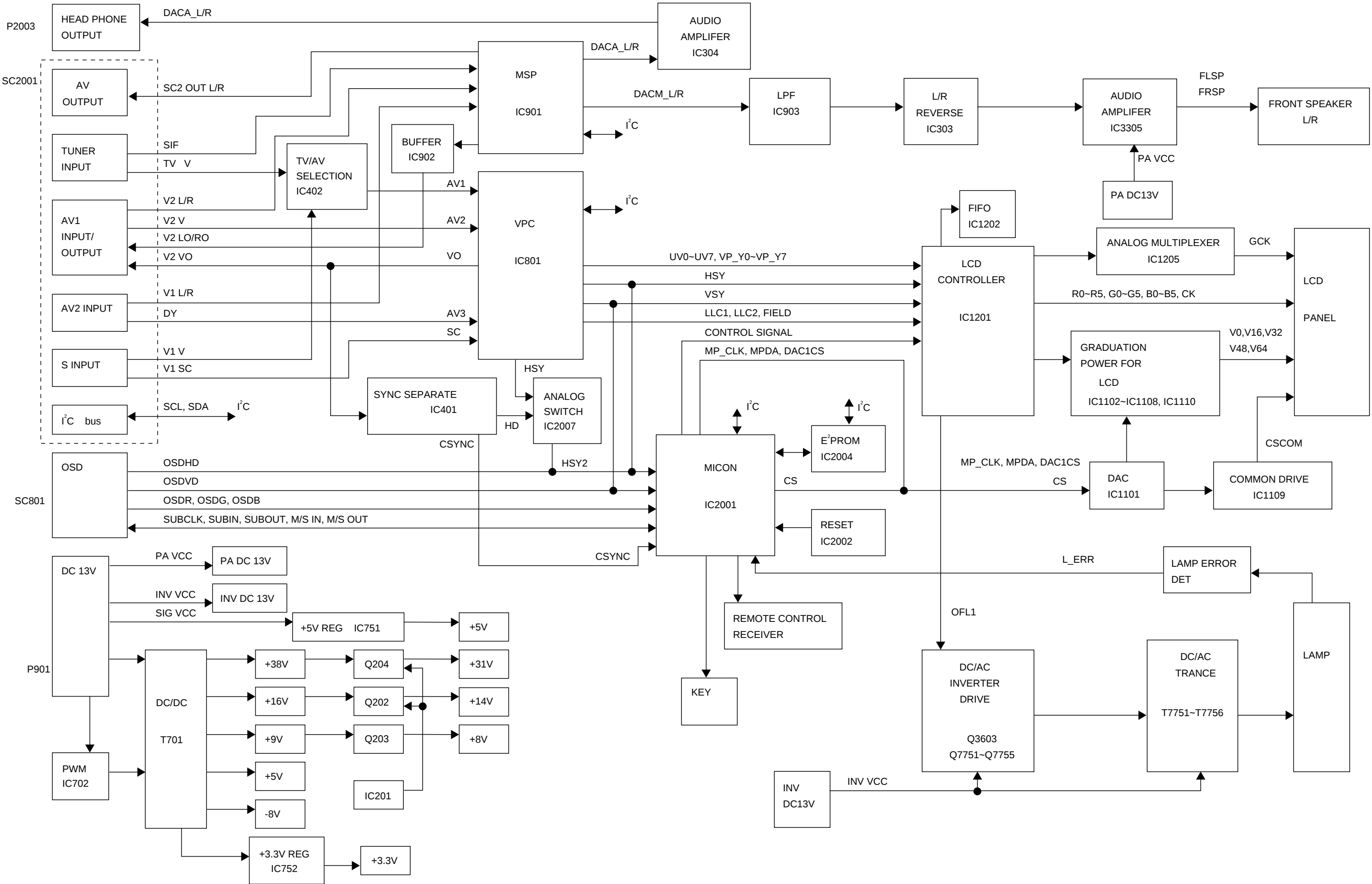


TROUBLE SHOOTING TABLE (Continued)

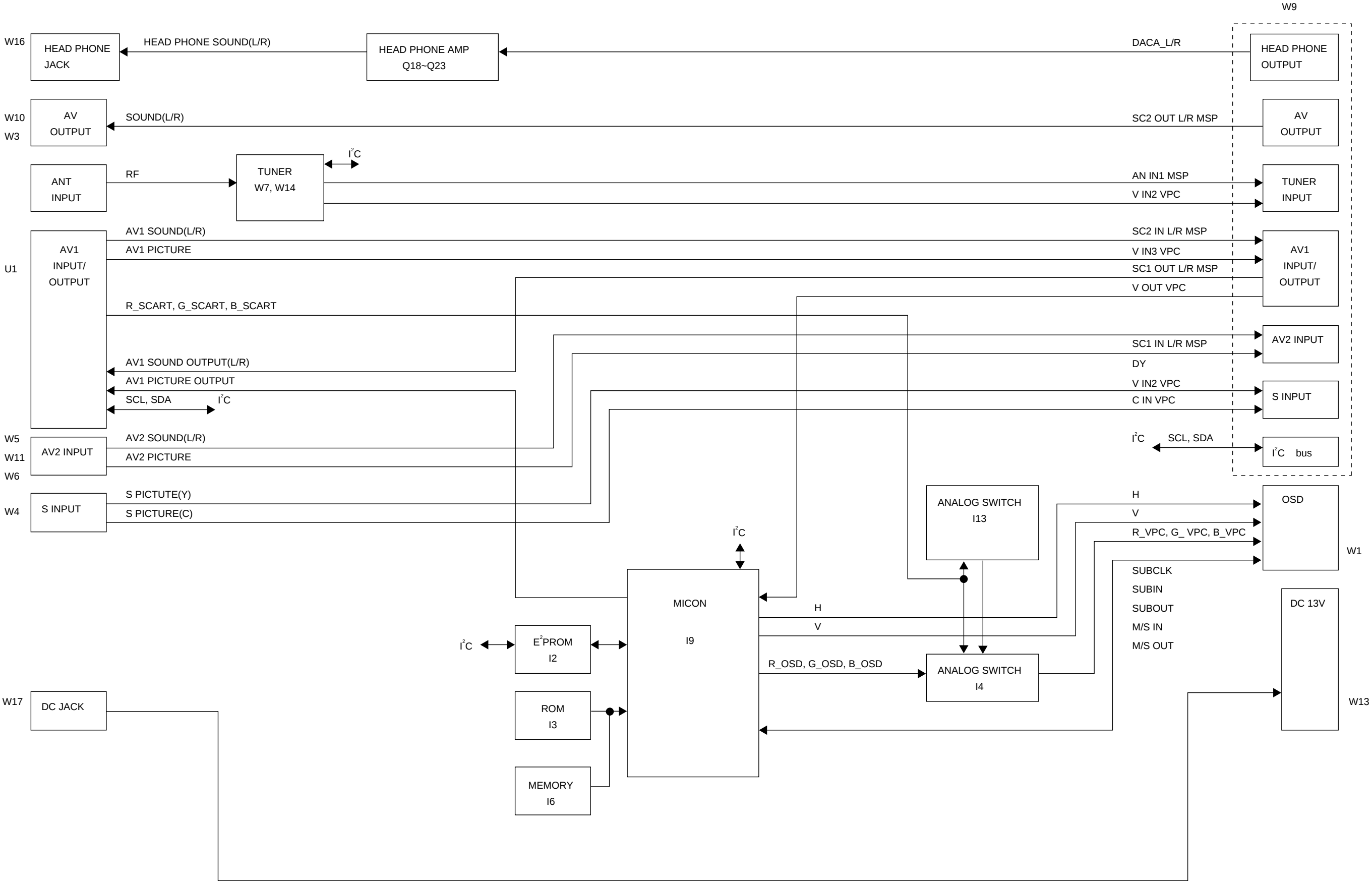


BLOCK DIAGRAMS

■ MAIN BLOCK DIAGRAM



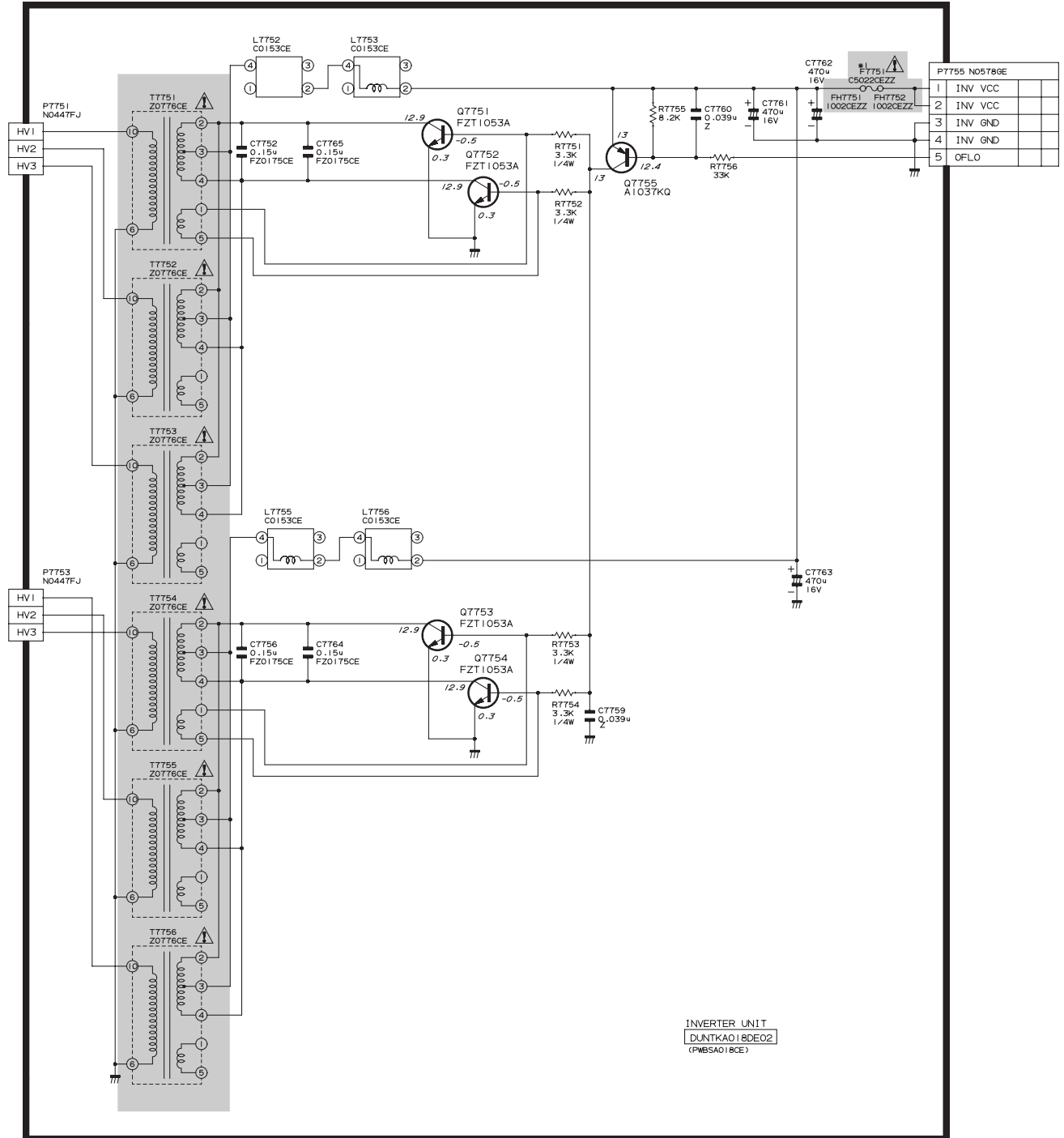
TUNER BLOCK DIAGRAM



SCHEMATIC DIAGRAMS

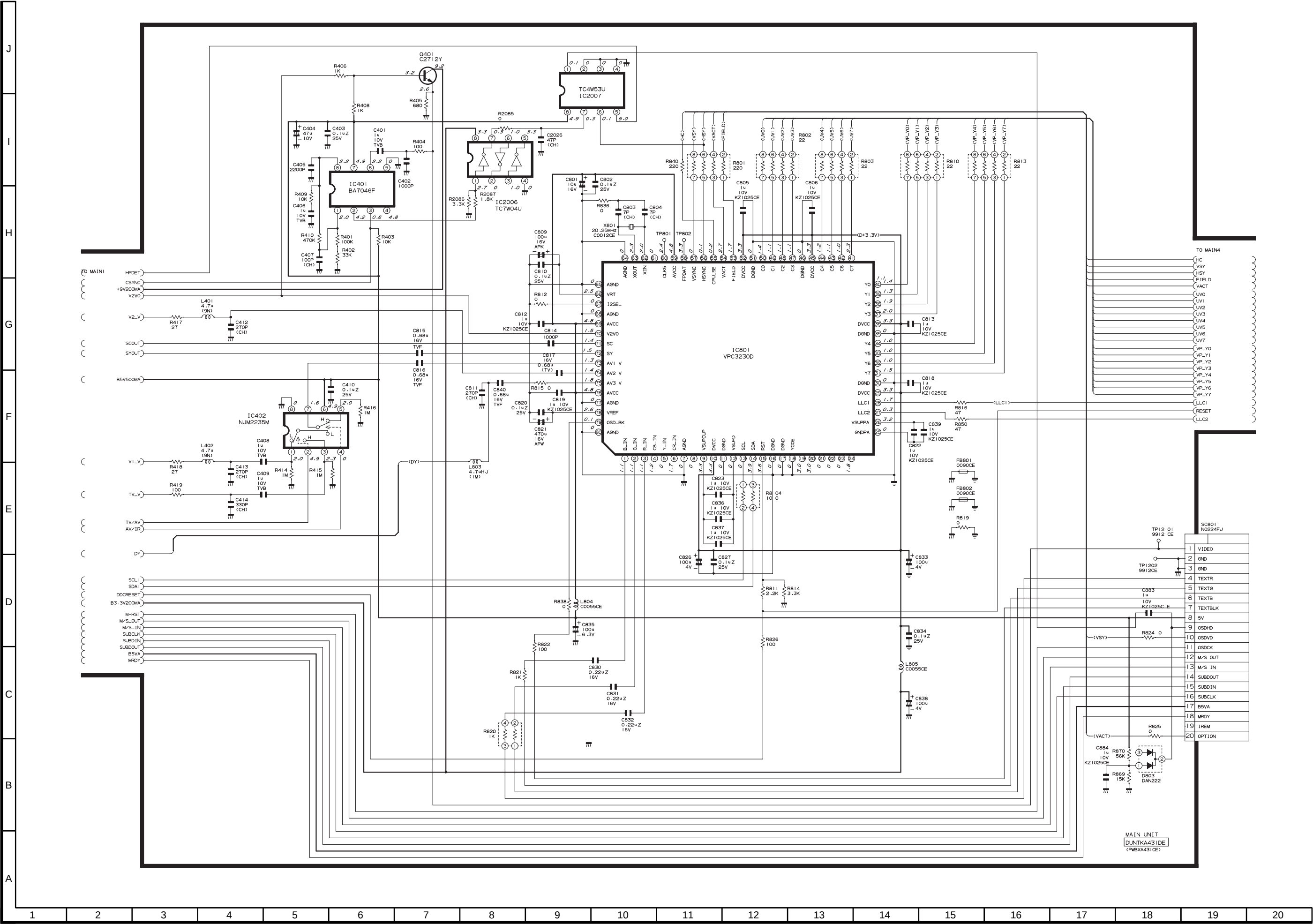
■ INVERTER Unit

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



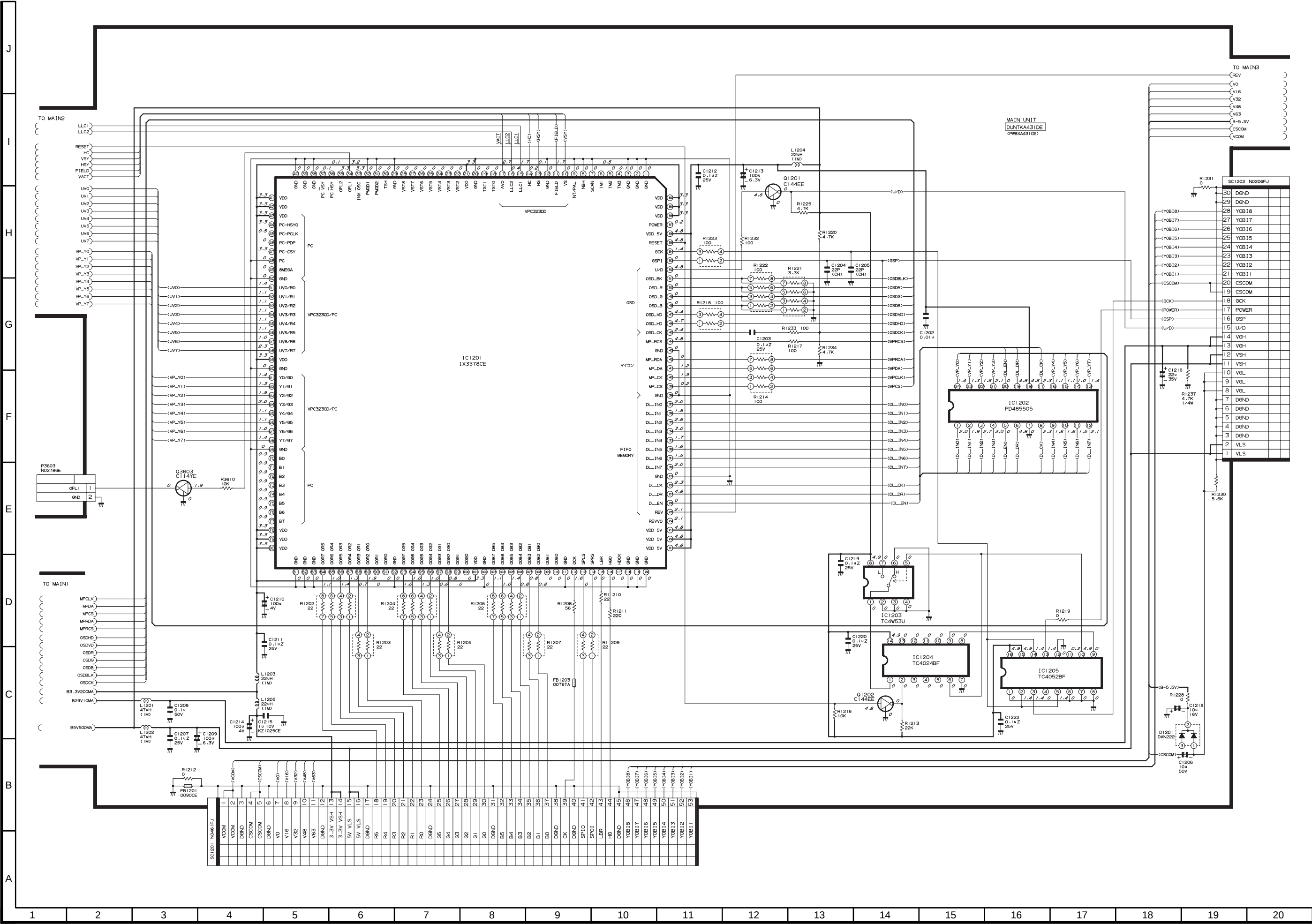


MAIN Unit -2/4

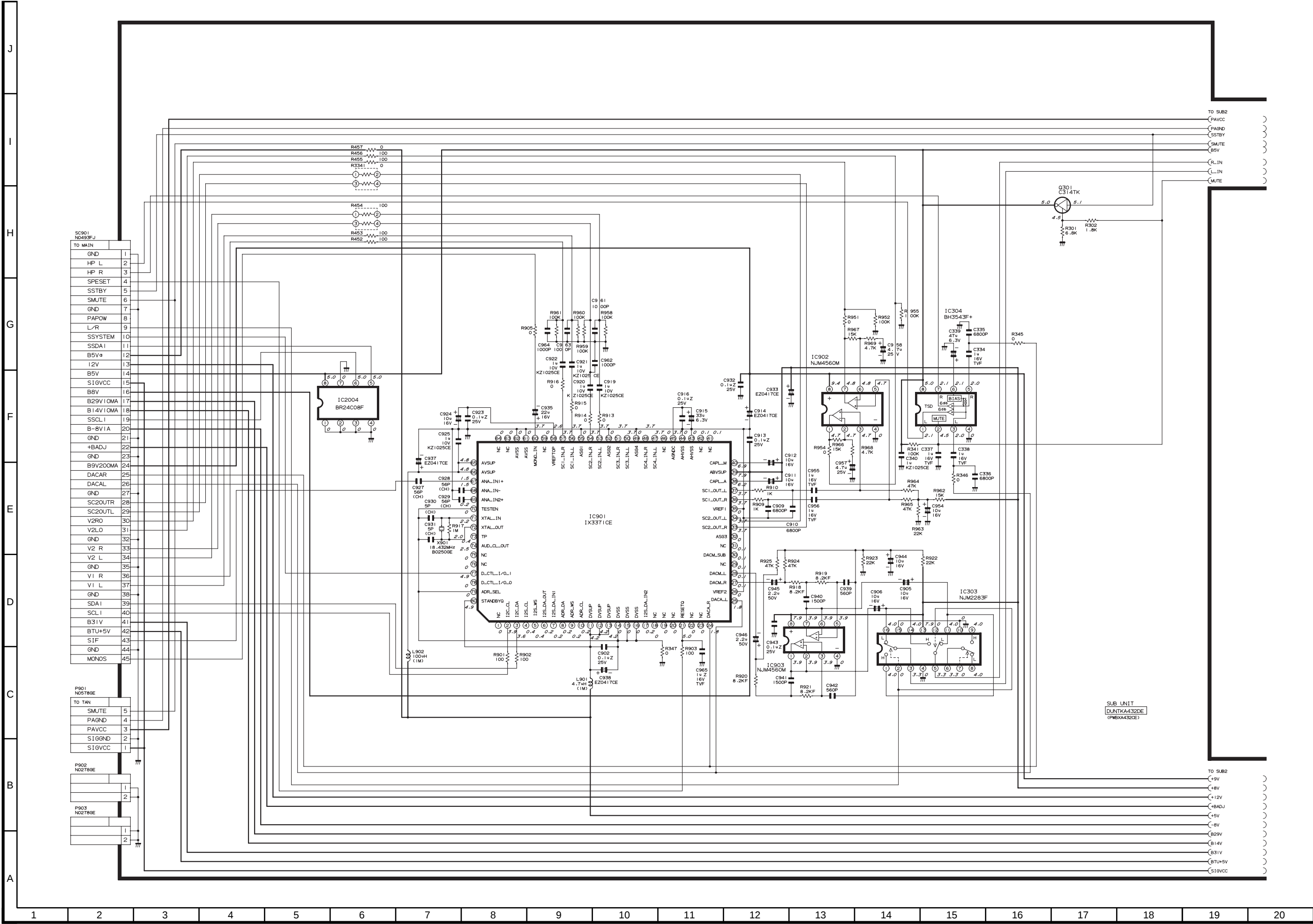




MAIN Unit -4/4



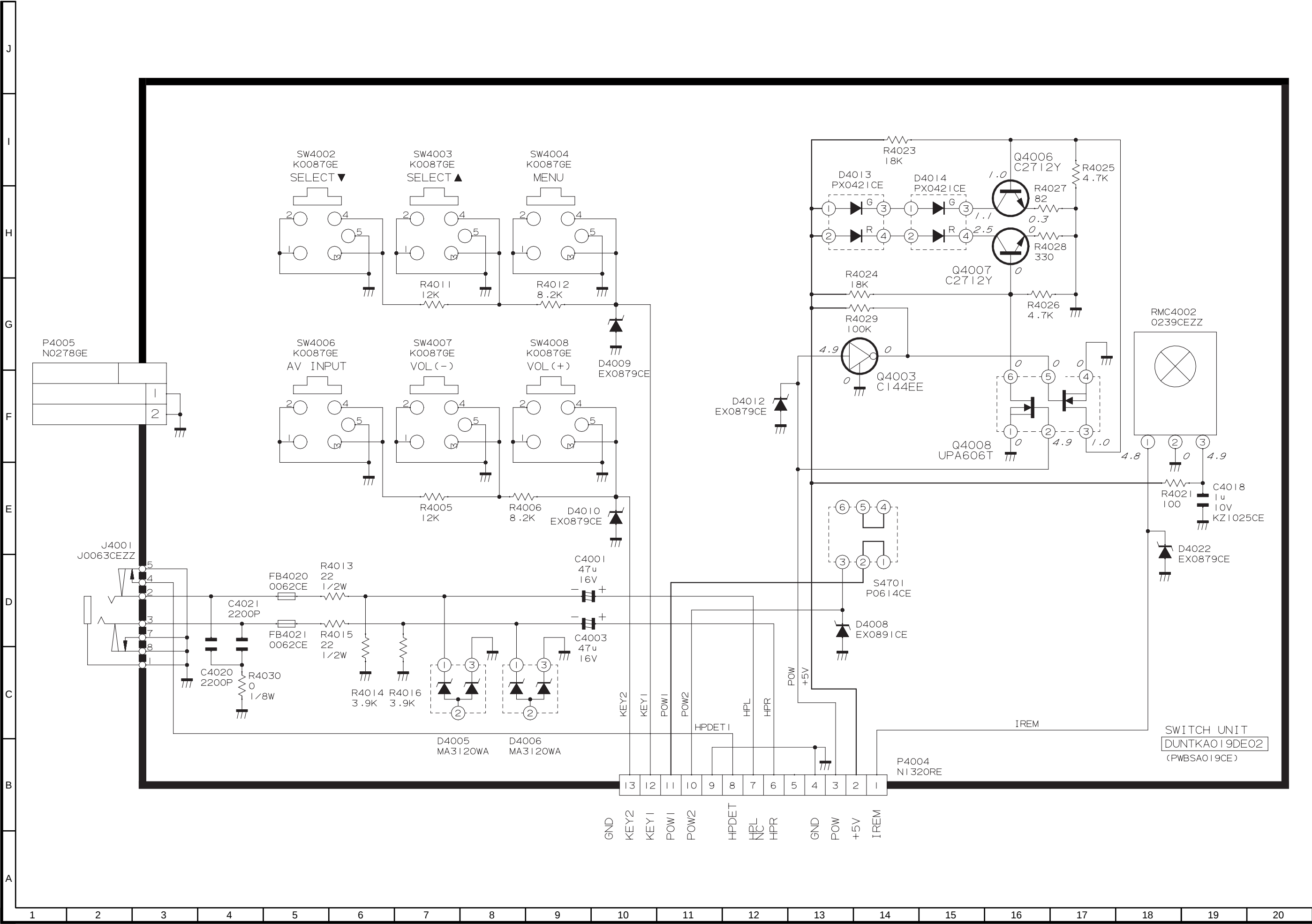
■ SUB Unit -1/2



⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS

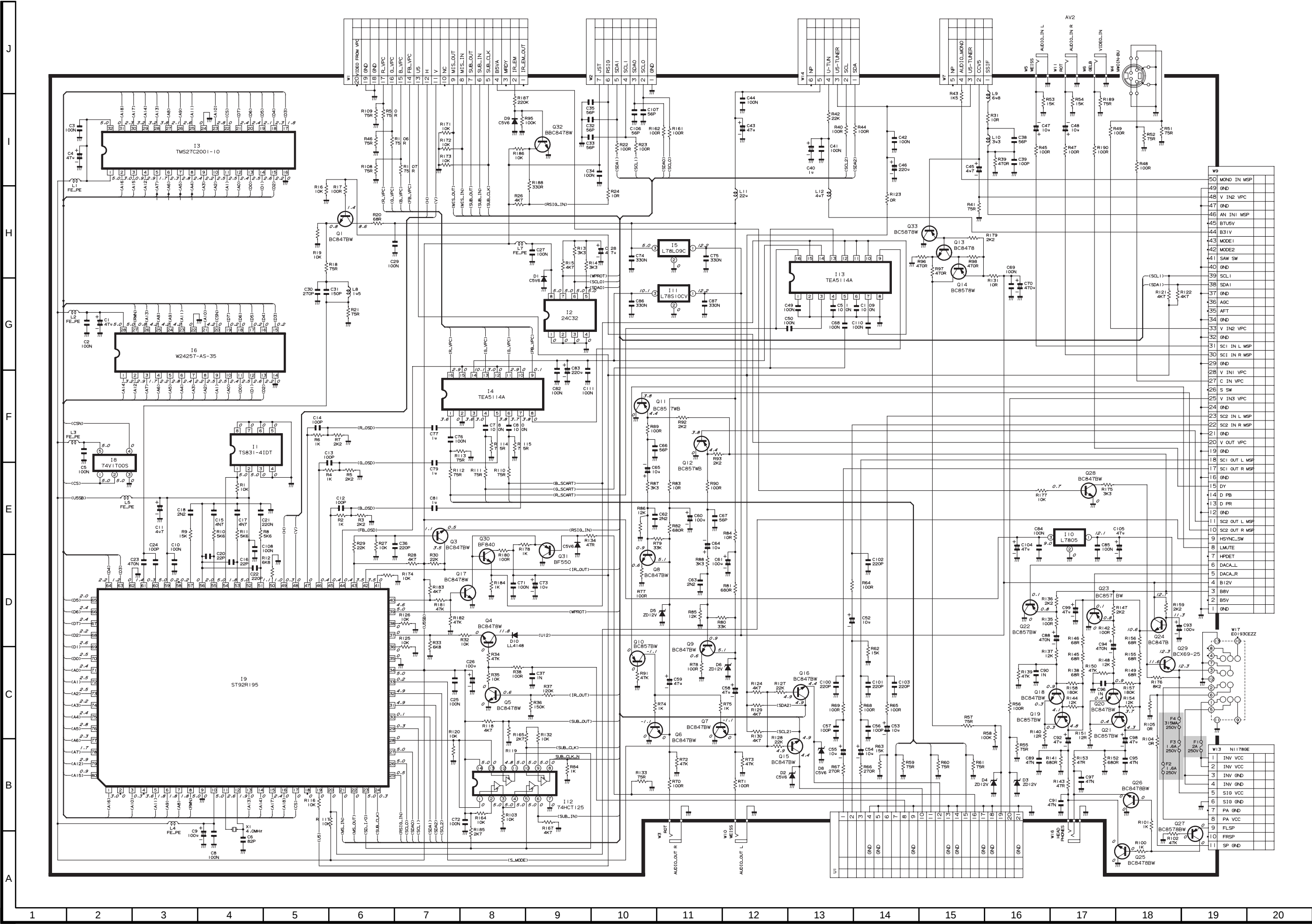


SWITCH Unit



TUNER Unit

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "▲" and shaded area in the Replacement Parts Lists and schematic diagrams.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER 2. REF. NO.
3. PART NO. 4. DESCRIPTION

MARK★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

LCD UNIT

RLCDT0060CEZZ	J	LCD Unit	EP
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LAMP UNIT

▲ KLMP-0112CEZZ	J	Lamp Unit	BB
▲ KLMP-0113CEZZ	J	Lamp Unit	BB

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

DUNTKA431DE01	—	Main PWB Unit	—
DUNTKA432DE01	—	SUB PWB Unit	—
DUNTKA018DE02	—	Inverter PWB Unit	—
DUNTKA019DE02	—	Switch PWB Unit	—

PRINTED WIRING BOARD ASSEMBLY

RUNTK0691CEZZ	J	Tuner PWB Unit	CG
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Ref. No.	Part No.	★	Description	Code
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DUNTKA431DE01
MAIN PWB UNIT

INTEGRATED CIRCUITS

IC401	VHiBA7046F/-1	J	BA7046F	AF
IC402	VHiNJM2235M-1	J	NJM2235M	AE
IC751	VHiAN77L05M-1	J	AN77L05M	AG
IC752	VHiBA033FP/-1	J	BA033FP	AG
IC801	VHiVPC3230D-1	J	VPC3230D	BG
IC1101	VHiMB8346BV-1	J	MB8346BV	AN
IC1102	VHiNJM4565V-1	J	NJM4565V	AF
IC1103	VHiNJM4565V-1	J	NJM4565V	AF
IC1104	VHiNJM4565V-1	J	NJM4565V	AF
IC1105	VHiBU4053V/-1	J	BU4053V	AE
IC1106	VHiNJM4580V-1	J	NJM4580V	AE
IC1107	VHiNJM4580V-1	J	NJM4580V	AE
IC1108	VHiNJM4580V-1	J	NJM4580V	AE
IC1109	VHiNJM353M/-1	J	NJM353M	AG
IC1110	VHiBU4053V/-1	J	BU4053V	AE
IC1201	RH-IX3378CEZZ	J	IX3378CE	AY
IC1202	VHiPD485505-2	J	PD485505	AY
IC1203	VHiTC4W53U/-1	J	TC4W53U	AF
IC1204	VHiTC4024BF-1	J	TC4024BF	AG
IC1205	VHiTC4052BF-1	J	TC4052BF	AE
IC2001	RH-IX3483CEZZ	J	IX3483CE	BA
IC2002	VHiPST529DM-1	J	PST529DM	AE
IC2006	VHiTC7W04U/-1	J	TC7W04U	AD
IC2007	VHiTC4W53U/-1	J	TC4W53U	AF

TRANSISTORS

Q401	VS2SC2712Y/-1	J	2SC2712Y	AB
Q751	VS2SA1162Y/-1	J	2SA1162Y	AB
Q752	VSDTC144EE/-1	J	DTC144EE	AA
Q753	VS2SA1162Y/-1	J	2SA1162Y	AB
Q758	VSFMMT718/-1	J	FMMT718	AE
Q759	VSDTC144EE/-1	J	DTC144EE	AA
Q1101	VS2SA1729/-1	J	2SA1729	AF
Q1102	VS2SC4520/-1	J	2SC4520	AE
Q1201	VSDTC144EE/-1	J	DTC144EE	AA
Q1202	VSDTC144EE/-1	J	DTC144EE	AA
Q2004	VSDTC144EE/-1	J	DTC144EE	AA
Q2005	VSDTA144EE/-1	J	DTA144EE	AA
Q2006	VSDTC144EE/-1	J	DTC144EE	AA
Q3600	VSUPA606T/-1	J	UPA606T	AD
Q3601	VSUPA606T/-1	J	UPA606T	AD
Q3602	VSUPA606T/-1	J	UPA606T	AD
Q3603	VSDTC114YE/-1	J	DTC114YE	AB

DIODES

D760	VHDDAN222/-1	J	DAN222	AA
D803	VHDDAN222/-1	J	DAN222	AA
D1101	VHD1SS250//1E	J	1SS250	AB
D1201	VHDDAN222/-1	J	DAN222	AA
D2001	VHDDAN222/-1	J	DAN222	AA
D3600	VHDI MN10///-1	J	IMN10	AB
D3601	VHDI MN10///-1	J	IMN10	AB
D3602	VHDI MN10///-1	J	IMN10	AB
D3603	VHDI MN10///-1	J	IMN10	AB

PACKAGED CIRCUIT

X801	RCRSC0012CEZZ	J	Crystal, CRSC0012CEZ	AH
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FILTER

X2002	RFILZ0169TAZZ	J	Filter, FiLZ0169TA	AD
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COILS

L401	VP-9N4R7KR56N	J	Peaking, 4.7μH	AC
L402	VP-9N4R7KR56N	J	Peaking, 4.7μH	AC
L803	VP-1M4R7J1R2N	J	Peaking, 4.7μH	AB
L804	RCiLC0055CEZZ	J	Coil, CiLC0055CE	AD
L805	RCiLC0055CEZZ	J	Coil, CiLC0055CE	AD
L1201	VP-1M470J5R4N	J	Peaking, 47μH	AC
L1202	VP-1M470J5R4N	J	Peaking, 47μH	AC
L1203	VP-1M220J2R9N	J	Peaking, 22μH	AC

Ref. No.	Part No.	★	Description	Code
DUNTKA431DE01 MAIN PWB UNIT(Continued)				
L1204	VP-1M220J2R9N	J	Peaking, 22μH	AC
L1205	VP-1M220J2R9N	J	Peaking, 22μH	AC
CAPACITORS				
C401	VCKYTV1AB105K	J 1	10V Ceramic	AD
C402	VCKYCY1HB102K	J 1000p	50V Ceramic	AA
C403	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C404	VCEAPF1AW476M	J 47	10V Electrolytic	AB
C405	VCKYCY1HB222K	J 2200p	50V Ceramic	AA
C406	VCKYTV1AB105K	J 1	10V Ceramic	AD
C407	VCCCCY1HH101J	J 100p	50V Ceramic	AA
C408	VCKYTV1AB105K	J 1	10V Ceramic	AD
C409	VCKYTV1AB105K	J 1	10V Ceramic	AD
C410	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C412	VCCCCY1HH271J	J 270p	50V Ceramic	AA
C413	VCCCCY1HH271J	J 270p	50V Ceramic	AA
C414	VCCCCY1HH331J	J 330p	50V Ceramic	AA
C751	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C752	VCEAPF1CN226M	J 22	16V Electrolytic	AD
C753	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C755	VCKYCY1CF334Z	J 0.33	16V Ceramic	AA
C756	VCEAPF0JN226M	J 22	6.3V Electrolytic	AD
C798	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C801	VCEAPF1CN106M	J 10	16V Electrolytic	AD
C802	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C803	VCCCCY1HH7R0D	J 7p	50V Ceramic	AA
C804	VCCCCY1HH7R0D	J 7p	50V Ceramic	AA
C805	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C806	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C809	VCEAPK1CN107M	J 100	16V Electrolytic	AD
C810	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C811	VCCCCY1HH271J	J 270p	50V Ceramic	AA
C812	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C813	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C814	VCKYCY1HB102K	J 1000p	50V Ceramic	AA
C815	VCKYTV1CF684Z	J 0.68	16V Ceramic	AB
C816	VCKYTV1CF684Z	J 0.68	16V Ceramic	AB
C817	VCKYTV1CF684Z	J 0.68	16V Ceramic	AB
C818	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C819	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C820	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C821	VCEAPW1CN477M	J 470	16V Electrolytic	AE
C822	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C823	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C826	VCEAPF0GW107M	J 100	4V Electrolytic	AC
C827	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C830	VCKYCY1CF224Z	J 0.22	16V Ceramic	AA
C831	VCKYCY1CF224Z	J 0.22	16V Ceramic	AA
C832	VCKYCY1CF224Z	J 0.22	16V Ceramic	AA
C833	VCEAPF0GW107M	J 100	4V Electrolytic	AC
C834	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C835	VCEAPF0JW107M	J 100	6.3V Electrolytic	AC
C836	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C837	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C838	VCEAPF0GW107M	J 100	4V Electrolytic	AC
C839	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C840	VCKYTV1CF684Z	J 0.68	16V Ceramic	AB
C883	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C884	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C1101	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1102	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1103	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1104	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1105	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1106	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1107	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1108	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1109	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1110	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1111	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1112	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1113	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C1114	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1115	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1116	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1117	VCCCCY1HH560J	J 56p	50V Ceramic	AA
C1118	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1119	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C1120	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1122	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C1123	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1124	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1125	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD
C1126	RC-EZ1141CEZZ*	J 15	16V Electrolytic	AG
C1202	VCKYCY1HB103K	J 0.01	50V Ceramic	AA
C1203	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1204	VCCCCY1HH220J	J 22p	50V Ceramic	AA
C1205	VCCCCY1HH220J	J 22p	50V Ceramic	AA
C1206	VCEAPF1HN106M	J 10	50V Electrolytic	AD
C1207	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1208	VCKYTV1HF104Z	J 0.1	50V Ceramic	AA
C1209	VCEAPF0JW107M	J 100	6.3V Electrolytic	AC
C1210	VCEAPF0GW107M	J 100	4V Electrolytic	AC
C1211	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1212	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1213	VCEAPF0JW107M	J 100	6.3V Electrolytic	AC
C1214	VCEAPF0GW107M	J 100	4V Electrolytic	AC
C1215	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C1216	VCEAPF1VW226M	J 22	35V Electrolytic	AB
C1218	VCEAPF1CN106M	J 10	16V Electrolytic	AD
C1219	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1220	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C1222	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C2001	VCKYCY1HB102K	J 1000p	50V Ceramic	AA
C2002	VCCCCY1HH221J	J 220p	50V Ceramic	AA
C2003	VCEAPF1HW105M	J 1	50V Electrolytic	AB
C2006	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C2007	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C2009	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C2010	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C2016	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C2017	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C2026	VCCCCY1HH470J	J 47p	50V Ceramic	AA
C3600	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C3601	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C3602	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C3603	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C3604	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C3605	VCKYTV1CF105Z	J 1	16V Ceramic	AB
RESISTORS				
R401	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
R402	VRS-CY1JF333J	J 33k	1/16W Metal Oxide	AA
R403	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R404	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R405	VRS-CY1JF681J	J 680	1/16W Metal Oxide	AA
R406	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R408	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R409	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R410	VRS-CY1JF474J	J 470k	1/16W Metal Oxide	AA
R414	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA
R415	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA
R416	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA
R417	VRS-CY1JF270J	J 27	1/16W Metal Oxide	AA
R418	VRS-CY1JF270J	J 27	1/16W Metal Oxide	AA
R419	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R460	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R463	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R751	VRS-CY1JF1R0J	J 1	1/16W Metal Oxide	AA
R752	VRS-CY1JF154J	J 150k	1/16W Metal Oxide	AA
R753	VRS-CY1JF274J	J 270k	1/16W Metal Oxide	AA
R775	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R776	VRS-CY1JF1R0J	J 1	1/16W Metal Oxide	AA
R777	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R787	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R788	VRS-TW2ED102J	J 1k	1/4W Metal Oxide	AA
R789	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKA431DE01 MAIN PWB UNIT(Continued)					R1210	VRS-CY1JF220J	J 22	1/16W Metal Oxide	AA
R790	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R1211	VRS-CY1JF221J	J 220	1/16W Metal Oxide	AA
R791	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R1212	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R801	VRS-CB1JF221J	J 220	1/16W Metal Oxide	AC	R1213	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R802	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC	R1214	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R803	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC	R1216	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R804	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA	R1217	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R810	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC	R1218	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA
R811	VRS-CY1JF222J	J 2.2k	1/16W Metal Oxide	AA	R1219	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R812	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R1220	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R813	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC	R1221	VRS-CB1JF332J	J 3.3k	1/16W Metal Oxide	AC
R814	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA	R1222	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R815	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R1223	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA
R816	VRS-CY1JF470J	J 47	1/16W Metal Oxide	AA	R1225	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R819	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R1228	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R820	VRS-CA1JF102J	J 1k	1/16W Metal Oxide	AA	R1230	VRS-CY1JF562J	J 5.6k	1/16W Metal Oxide	AA
R821	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R1231	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R822	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R1232	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R824	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R1233	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R825	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R1234	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R826	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R1237	VRS-TW2ED472J	J 4.7k	1/4W Metal Oxide	AA
R836	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R2001	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R838	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R2003	VRS-CA1JF223J	J 22k	1/16W Metal Oxide	AA
R840	VRS-CY1JF221J	J 220	1/16W Metal Oxide	AA	R2007	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R850	VRS-CY1JF470J	J 47	1/16W Metal Oxide	AA	R2008	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R869	VRS-CY1JF153J	J 56k	1/16W Metal Oxide	AA	R2009	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R870	VRS-CY1JF563J	J 15k	1/16W Metal Oxide	AA	R2010	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R1101	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA	R2011	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R1102	VRS-CA1JF103J	J 10k	1/16W Metal Oxide	AA	R2012	VRS-CA1JF103J	J 10k	1/16W Metal Oxide	AA
R1103	VRS-CA1JF103J	J 10k	1/16W Metal Oxide	AA	R2013	VRS-CA1JF223J	J 22k	1/16W Metal Oxide	AA
R1104	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA	R2014	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA
R1105	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA	R2015	VRS-CB1JF331J	J 330	1/16W Metal Oxide	AC
R1106	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA	R2016	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R1107	VRS-CA1JF103J	J 10k	1/16W Metal Oxide	AA	R2017	VRS-CA1JF102J	J 1k	1/16W Metal Oxide	AA
R1108	VRS-CA1JF103J	J 10k	1/16W Metal Oxide	AA	R2018	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R1109	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA	R2019	VRS-CY1JF471J	J 470	1/16W Metal Oxide	AA
R1110	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA	R2020	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA
R1111	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA	R2022	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA
R1112	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA	R2025	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R1113	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA	R2026	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R1114	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA	R2027	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R1115	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R2028	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R1116	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R2029	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R1117	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R2030	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA
R1118	VRS-CY1JF823F	J 82k	1/16W Metal Oxide	AA	R2033	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R1119	VRS-CY1JF472F	J 4.7k	1/16W Metal Oxide	AA	R2041	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R1120	VRS-TW2ED5R6J	J 5.6	1/4W Metal Oxide	AA	R2050	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R1121	VRS-CY1JF391J	J 390	1/16W Metal Oxide	AA	R2051	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R1122	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R2052	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R1123	VRS-CY1JF391J	J 390	1/16W Metal Oxide	AA	R2053	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R1124	VRS-CY1JF472F	J 4.7k	1/16W Metal Oxide	AA	R2064	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R1125	VRS-TW2ED101J	J 100	1/4W Metal Oxide	AA	R2068	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R1126	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R2072	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R1127	VRS-TX2HF3R9J	J 3.9	1/2W Metal Oxide	AB	R2085	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R1128	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA	R2086	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA
R1129	VRS-CY1JF563F	J 56k	1/16W Metal Oxide	AA	R2087	VRS-CY1JF182J	J 1.8k	1/16W Metal Oxide	AA
R1130	VRS-TW2ED1R5J	J 1.5	1/4W Metal Oxide	AB	R2089	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R1131	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA	R3600	VRS-CA1JF332J*	J 3.3k	1/16W Metal Oxide	AB
R1132	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R3601	VRS-CB1JF332J	J 3.3k	1/16W Metal Oxide	AC
R1133	VRS-CY1JF223F	J 22k	1/16W Metal Oxide	AA	R3602	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R1134	VRS-CY1JF822F	J 8.2k	1/16W Metal Oxide	AA	R3603	VRS-CB1JF104J	J 100k	1/16W Metal Oxide	AA
R1135	VRS-CY1JF561J	J 560	1/16W Metal Oxide	AA	R3604	VRS-CA1JF104J	J 100k	1/16W Metal Oxide	AA
R1136	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R3605	VRS-CB1JF562J	J 5.6k	1/16W Metal Oxide	AC
R1137	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R3606	VRS-CA1JF562J	J 5.6k	1/16W Metal Oxide	AA
R1138	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R3607	VRS-CY1JF563J	J 56k	1/16W Metal Oxide	AA
R1202	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC	R3610	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R1203	VRS-CA1JF220J	J 22	1/16W Metal Oxide	AA	BALUNES				
R1204	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC	FB801	RBLN-0090CEZZ	J Balun,	BLN-0090CE	AD
R1205	VRS-CA1JF220J	J 22	1/16W Metal Oxide	AA	FB802	RBLN-0090CEZZ	J Balun,	BLN-0090CE	AD
R1206	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC	FB1201	RBLN-0090CEZZ	J Balun,	BLN-0090CE	AD
R1207	VRS-CA1JF220J	J 22	1/16W Metal Oxide	AA	FB1203	RBLN-0076TAZZ	J Balun,	BLN-0076TA	AC
R1208	VRS-CY1JF560J	J 56	1/16W Metal Oxide	AA					
R1209	VRS-CA1JF220J	J 22	1/16W Metal Oxide	AA					

Ref. No.	Part No.	★	Description	Code
DUNTKA431DE01				
MAIN PWB UNIT(Continued)				
MISCELLANEOUS PARTS				
P2002	QPLGN1320REZZ	J	Plug, 13Pin	AC
P2003	QPLGN1320REZZ	J	Plug, 13Pin	AC
P3601	QPLGN0378GEZZ	J	Plug, 3Pin	AB
P3602	QPLGN0378GEZZ	J	Plug, 3Pin	AB
P3603	QPLGN0278GEZZ	J	Plug, 2Pin	AA
P3604	QPLGN0278GEZZ	J	Plug, 2Pin	AA
SC402	QSOCN0493FJZZ	J	Socket, 45Pin	AG
SC801	QSOCN0224FJZZ	J	Socket, 20Pin	AE
SC1201	QSOCN0461FJZZ	J	Socket, 53Pin	AH
SC1202	QSOCN0206FJZZ	J	Socket, 30Pin	AF
SC2001	QSOCN0464FJZZ	J	Socket, 50Pin	AH

DUNTKA432DE01				
SUB PWB UNIT				
INTEGRATED CIRCUITS				
IC201	VHiNJM2147M-1	J	NJM2147M	AF
IC303	VHiNJM2283F-1	J	NJM2283F	AF
IC304	VHiBH3543F+-1	J	BH3543F+	AE
IC702	VHiNJM2377M-1	J	NJM2377M	AK
IC901	RH-iX3371CEZZ	J	IX3371CE	BD
IC902	VHiNJM4560M-1	J	NJM4560M	AG
IC903	VHiNJM4560M-1	J	NJM4560M	AG
IC2004	VHiBR24C08F-1	J	BR24C08F	AF
IC3305	VHiLA4635A+-1S	J	LA4635A+	AM
TRANSISTORS				
Q201	VS2SC2712Y/-1	J	2SC2712Y	AB
Q202	VS2SC2712Y/-1	J	2SC2712Y	AB
Q203	VSFMY3/////1	J	FMY3	AB
Q204	VS2SC2712Y/-1	J	2SC2712Y	AB
Q301	VSDTC314TK/-1	J	DTC314TK	AC
Q702	VS2SK2503/-1	J	2SK2503	AE
Q703	VS2SC2712Y/-1	J	2SC2712Y	AB
Q3304	VSDTC314TK/-1	J	DTC314TK	AC
Q3305	VSDTC314TK/-1	J	DTC314TK	AC
Q3306	VS2SC2712Y/-1	J	2SC2712Y	AB
Q3307	VSDTC314TK/-1	J	DTC314TK	AC
Q3308	VSDTC314TK/-1	J	DTC314TK	AC

DIODES				
D201	VHDDAN222//1	J	DAN222	AA
D702	VHDSFPB56//2E	J	SFPB56	AC
D703	VHD1SS250//1E	J	1SS250	AB
D704	VHD1SS250//1E	J	1SS250	AB
D705	VHDDAN222//1	J	DAN222	AA
D706	VHDSFPB74//2E	J	SFPB74	AD
D707	VHDDAN222//1	J	DAN222	AA
D709	VHDDAN222//1	J	DAN222	AA
D3301	VHDDAN222//1	J	DAN222	AA
D3302	RH-EX1396CEZZ	J	Zener Diode, 6.8V	AB

PACKAGED CIRCUIT				
X901	RCRSB0250GEZZ	J	Crystal, CRSB0250GE	AG

COILS				
L701	RCiLC0130CEZZ	J	Coil, CiLC0130CE	AG
L705	RCiLC0057CEZZ	J	Coil, CiLC0057CE	AD
L706	RCiLC0130CEZZ	J	Coil, CiLC0130CE	AG
L901	VP-1M4R7J1R2N	J	Peaking, 4.7μH	AB
L902	VP-1M101J7R7N	J	Peaking, 100μH	AC

TRANSFORMER				
△ T701	RTRNZ0778CEZZ	J	Transformer	AM

CAPACITORS				
C201	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C202	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C203	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C204	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C205	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C206	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C334	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C335	VCKYCY1HB682K	J	6800p 50V Ceramic	AA
C336	VCKYCY1HB682K	J	6800p 50V Ceramic	AA
C337	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C338	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C339	VCEAPF0JW476M	J	47 6.3V Electrolytic	AB
C340	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C701	VCCCCY1HH471J	J	470p 50V Ceramic	AA
C706	VCKYCY1HB562K	J	5600p 50V Ceramic	AA
C710	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C711	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C712	VCEAPT1CN226M	J	22 16V Electrolytic	AC
C713	RC-EZ1176CEZZ	J	100 16V Electrolytic	AK
C716	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C719	RC-EZ0420CEZZ	J	100 25V Electrolytic	AE
C721	VCEASD1HN336M	J	33 50V Electrolytic	AD
C722	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C728	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C729	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C731	VCCCCY1HH181J	J	180p 50V Ceramic	AA
C733	RC-EZ0538CEZZ	J	330 16V Electrolytic	AE
C734	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C735	RC-EZ0416CEZZ	J	330 6.3V Electrolytic	AD
C736	RC-EZ0416CEZZ	J	330 6.3V Electrolytic	AD
C737	RC-EZ1339CEZZ	J	220 16V Electrolytic	AD
C738	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C740	VCEAPF1EN475M	J	4.7 25V Electrolytic	AC
C741	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C747	VCKYTV1HB562K	J	5600p 50V Ceramic	AA
C748	RC-EZ1339CEZZ	J	220 16V Electrolytic	AD
C749	RC-EZ1177CEZZ	J	150 6.3V Electrolytic	AH
C902	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C905	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C906	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C909	VCKYCY1HB682K	J	6800p 50V Ceramic	AA
C910	VCKYCY1HB682K	J	6800p 50V Ceramic	AA
C911	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C912	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C913	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C914	RC-EZ0417CEZZ	J	150 16V Electrolytic	AD
C915	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C916	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C919	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C920	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C921	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C922	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C923	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C924	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C925	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C927	VCCCCY1HH560J	J	56p 50V Ceramic	AA
C928	VCCCCY1HH560J	J	56p 50V Ceramic	AA
C929	VCCCCY1HH560J	J	56p 50V Ceramic	AA
C930	VCCCCY1HH5R0C	J	5p 50V Ceramic	AA
C931	VCCCCY1HH5R0C	J	5p 50V Ceramic	AA
C932	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C933	RC-EZ0417CEZZ	J	150 16V Electrolytic	AD
C935	VCEAPF1CW226M	J	22 16V Electrolytic	AB
C937	RC-EZ0417CEZZ	J	150 16V Electrolytic	AD
C938	RC-EZ0417CEZZ	J	150 16V Electrolytic	AD
C939	VCKYCY1HB561K	J	560p 50V Ceramic	AA
C940	VCKYCY1HB152K	J	1500p 50V Ceramic	AA
C941	VCKYCY1HB152K	J	1500p 50V Ceramic	AA
C942	VCKYCY1HB561K	J	560p 50V Ceramic	AA
C943	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C944	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C945	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C946	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C954	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C955	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C956	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C957	VCEAPF1EW475M	J	4.7 25V Electrolytic	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKA432DE01 SUB PWB UNIT(Continued)					R732	VRS-TW2ED222J	J 2.2k	1/4W Metal Oxide	AA
C958	VCEAPF1EW475M	J 4.7	25V Electrolytic	AB	R733	VRS-TQ2BD683J	J 68k	1/8W Metal Oxide	AA
C961	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	R734	VRS-CY1JF393J	J 39k	1/16W Metal Oxide	AA
C962	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	R735	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
C963	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	R736	VRS-CY1JF1R0J	J 1	1/16W Metal Oxide	AA
C964	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	R741	VRS-TQ2BD1R0J	J 1	1/8W Metal Oxide	AA
C965	VCKYTV1CF105Z	J 1	16V Ceramic	AB	R742	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3359	VCEAPF1HW225M	J 2.2	50V Electrolytic	AB	R747	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3360	VCEAPF1CW107M	J 100	16V Electrolytic	AD	R748	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3361	VCEAPF1HW105M	J 1	50V Electrolytic	AB	R901	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
C3362	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	R902	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
C3363	VCEAPF1HW225M	J 2.2	50V Electrolytic	AB	R903	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
C3364	VCEAPF1HW105M	J 1	50V Electrolytic	AB	R905	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3365	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	R909	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3366	VCEAPF1HW225M	J 2.2	50V Electrolytic	AB	R910	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3367	VCEAPF1CW106M	J 10	16V Electrolytic	AB	R913	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3368	VCEAPF1CW106M	J 10	16V Electrolytic	AB	R914	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3370	VCKYTV1CF105Z	J 1	16V Ceramic	AB	R915	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3371	VCEA4U1CN228M	J 2200	16V Electrolytic	AE	R916	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3373	VCEA4U1CN228M	J 2200	16V Electrolytic	AE	R917	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA
C3374	VCEA4U1CN228M	J 2200	16V Electrolytic	AE	R918	VRS-CY1JF822F	J 8.2k	1/16W Metal Oxide	AA
RESISTORS					R919	VRS-CY1JF822F	J 8.2k	1/16W Metal Oxide	AA
R201	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R920	VRS-CY1JF822F	J 8.2k	1/16W Metal Oxide	AA
R202	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA	R921	VRS-CY1JF822F	J 8.2k	1/16W Metal Oxide	AA
R203	VRS-CY1JF102F	J 1k	1/16W Metal Oxide	AA	R922	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R204	VRS-CY1JF473F	J 47k	1/16W Metal Oxide	AA	R923	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R205	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA	R924	VRS-CY1JF473J	J 47k	1/16W Metal Oxide	AA
R206	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA	R925	VRS-CY1JF473J	J 47k	1/16W Metal Oxide	AA
R207	VRS-CY1JF622F	J 6.2k	1/16W Metal Oxide	AA	R951	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R208	VRS-CY1JF473F	J 47k	1/16W Metal Oxide	AA	R952	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
R209	VRS-CY1JF123F	J 12k	1/16W Metal Oxide	AA	R954	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R210	VRS-CY1JF242F	J 2.4k	1/16W Metal Oxide	AA	R955	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
R211	VRS-CY1JF332F	J 3.3k	1/16W Metal Oxide	AA	R958	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
R212	VRS-CY1JF332F	J 3.3k	1/16W Metal Oxide	AA	R959	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
R213	VRS-CY1JF682F	J 6.8k	1/16W Metal Oxide	AA	R960	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
R214	VRS-CY1JF122F	J 1.2k	1/16W Metal Oxide	AA	R961	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
R215	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R962	VRS-CY1JF153J	J 15k	1/16W Metal Oxide	AA
R216	VRS-CY1JF153J	J 15k	1/16W Metal Oxide	AA	R963	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R217	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R964	VRS-CY1JF473J	J 47k	1/16W Metal Oxide	AA
R218	VRS-CY1JF391J	J 390	1/16W Metal Oxide	AA	R965	VRS-CY1JF473J	J 47k	1/16W Metal Oxide	AA
R219	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA	R966	VRS-CY1JF153J	J 15k	1/16W Metal Oxide	AA
R220	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R967	VRS-CY1JF153J	J 15k	1/16W Metal Oxide	AA
R301	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA	R968	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R302	VRS-CY1JF182J	J 1.8k	1/16W Metal Oxide	AA	R969	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R341	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA	R3341	VRS-CA1JF000J	J 0	1/16W Metal Oxide	AB
R345	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R3358	VRS-CY1JF562J	J 5.6k	1/16W Metal Oxide	AA
R346	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R3360	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R347	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R3361	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R452	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R3362	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA
R453	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R3363	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA
R454	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA	R3364	VRS-CY1JF122J	J 1.2k	1/16W Metal Oxide	AA
R455	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R3365	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA
R456	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R3366	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA
R457	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	R3368	VRS-CR3AD1R0J	J 1	1W Metal Oxide	AC
R705	VRS-TX2HF000J	J 0	1/2W Metal Oxide	AA	R3370	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R706	VRS-CR3AD821J	J 820	1W Metal Oxide	AC	R3371	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R708	VRS-CY1JF272F	J 2.7k	1/16W Metal Oxide	AA	R3372	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R709	VRS-CY1JF123F	J 12k	1/16W Metal Oxide	AA	R3373	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R711	VRS-CY1JF184J	J 180k	1/16W Metal Oxide	AA	BALUNES				
R712	VRS-CY1JF683F	J 68k	1/16W Metal Oxide	AA	FB702	RBLN-0051TAZZ	J Balun, BLN-0051TA		AC
R713	VRS-CY1JF133F	J 13k	1/16W Metal Oxide	AA	FB703	RBLN-0051TAZZ	J Balun, BLN-0051TA		AC
R715	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA	FB704	RBLN-0051TAZZ	J Balun, BLN-0051TA		AC
R717	VRS-CY1JF152F	J 1.5k	1/16W Metal Oxide	AA	FB705	RBLN-0095CEZZ	J Balun, BLN-0095CE		AD
R718	VRS-CY1JF274J	J 270k	1/16W Metal Oxide	AA	FB706	RBLN-0051TAZZ	J Balun, BLN-0051TA		AC
R719	VRS-CY1JF563F	J 56k	1/16W Metal Oxide	AA	FB708	RBLN-0095CEZZ	J Balun, BLN-0095CE		AD
R720	VRS-CY1JF473J	J 47k	1/16W Metal Oxide	AA	FB709	RBLN-0090CEZZ	J Balun, BLN-0090CE		AD
R721	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA	MISCELLANEOUS PARTS				
R722	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA	PRDAR3241CEFW	J Heat Sink			AG
R723	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA	P304	QPLGN0278GEZZ	J Plug, 2Pin		AA
R724	VRS-TQ2BD000J	J 0	1/8W Metal Oxide	AA	P305	QPLGN0278GEZZ	J Plug, 2Pin		AA
R729	VRS-TQ2BD000J	J 0	1/8W Metal Oxide	AA	P901	QPLGN0578GEZZ	J Plug, 5Pin		AB
R731	VRS-TQ2BD000J	J 0	1/8W Metal Oxide	AA	P902	QPLGN0278GEZZ	J Plug, 2Pin		AA

Ref. No.	Part No.	★	Description	Code
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DUNTKA432DE01 SUB PWB UNIT(Continued)

P903	QPLGN0278GEZZ	J	Plug, 2Pin	AA
SC901	QSOCN0493FJZZ	J	Socket, 45Pin	AG

DUNTKA018DE02 INVERTER PWB UNIT

TRANSISTORS

Q7751	VSFZT1053A/-1	J	FZT1053A	AG
Q7752	VSFZT1053A/-1	J	FZT1053A	AG
Q7753	VSFZT1053A/-1	J	FZT1053A	AG
Q7754	VSFZT1053A/-1	J	FZT1053A	AG
Q7755	VS2SA1037KQ-1	J	2SA1037KQ	AA

COILS

L7752	RCiLC0153CEZZ	J	Coil, CiLC0153CEZ	AG
L7753	RCiLC0153CEZZ	J	Coil, CiLC0153CEZ	AG
L7755	RCiLC0153CEZZ	J	Coil, CiLC0153CEZ	AG
L7756	RCiLC0153CEZZ	J	Coil, CiLC0153CEZ	AG

TRANSFORMERS

⚠ T7751	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7752	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7753	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7754	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7755	RTRNZ0776CEZZ	J	Transformer	AM
⚠ T7756	RTRNZ0776CEZZ	J	Transformer	AM

CAPACITORS

C7752	RC-FZ0175CEZZ	J	0.15 100V M.Polypro Film	AG
C7756	RC-FZ0175CEZZ	J	0.15 100V M.Polypro Film	AG
C7759	VCKYCY1HF393Z	J	0.039 50V Ceramic	AB
C7760	VCKYCY1HF393Z	J	0.039 50V Ceramic	AB
C7761	VCEAPW1CN477M	J	470 16V Electrolytic	AE
C7762	VCEAPW1CN477M	J	470 16V Electrolytic	AE
C7763	VCEAPW1CN477M	J	470 16V Electrolytic	AE
C7764	RC-FZ0175CEZZ	J	0.15 100V M.Polypro Film	AG
C7765	RC-FZ0175CEZZ	J	0.15 100V M.Polypro Film	AG

RESISTORS

R7751	VRS-TW2ED332J	J	3.3k 1/4W Metal Oxide	AB
R7752	VRS-TW2ED332J	J	3.3k 1/4W Metal Oxide	AB
R7753	VRS-TW2ED332J	J	3.3k 1/4W Metal Oxide	AB
R7754	VRS-TW2ED332J	J	3.3k 1/4W Metal Oxide	AB
R7755	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R7756	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

⚠ FH7751	QFSHD1002CEZZ	J	Fuse Holder	AA
⚠ FH7752	QFSHD1002CEZZ	J	Fuse Holder	AA
⚠ F7751	QFS-C5022CEZZ	J	Fuse, 5A	AD
P7751	QPLGN0447FJZZ	J	Plug, 3Pin	AE
P7753	QPLGN0447FJZZ	J	Plug, 3Pin	AE
P7755	QPLGN0578GEZZ	J	Plug, 5Pin	AB

DUNTKA019DE02 SWITCH PWB UNIT

TRANSISTORS

Q4003	VSDTC144EE/-1	J	DTC144EE	AA
Q4006	VS2SC2712Y/-1	J	2SC2712Y	AB
Q4007	VS2SC2712Y/-1	J	2SC2712Y	AB
Q4008	VSUPA606T//-1	J	UPA606T	AD

DIODES AND LED'S

D4005	VHDMA3120WA-1	J	MA3120WA	AK
D4006	VHDMA3120WA-1	J	MA3120WA	AK

Ref. No.	Part No.	★	Description	Code
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D4008	RH-EX0891CEZZ	J	Zener Diode	AC
D4009	RH-EX0879CEZZ	J	Zener Diode	AD
D4010	RH-EX0879CEZZ	J	Zener Diode	AD
D4012	RH-EX0879CEZZ	J	Zener Diode	AD
D4013	RH-PX0421CEZZ	J	PhotoDiode	AD
D4014	RH-PX0421CEZZ	J	PhotoDiode	AD
D4022	RH-EX0879CEZZ	J	Zener Diode	AD

CAPACITORS

C4001	VCEAPF1CW476M	J	47 16V Electrolytic	AC
C4003	VCEAPF1CW476M	J	47 16V Electrolytic	AC
C4018	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C4020	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C4021	VCKYCY1HB222K	J	2200p 50V Ceramic	AA

RESISTORS

R4005	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R4006	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R4011	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R4012	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R4013	VRS-TX2HF220J	J	22 1/2W Metal Oxide	AB
R4014	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R4015	VRS-TX2HF220J	J	22 1/2W Metal Oxide	AB
R4016	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R4021	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R4023	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R4024	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R4025	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R4026	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R4027	VRS-CY1JF820J	J	82 1/16W Metal Oxide	AA
R4028	VRS-CY1JF331J	J	330 1/16W Metal Oxide	AA
R4029	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R4030	VRS-TQ2BD000J	J	0 1/8W Metal Oxide	AA

BALUNES

FB4020	RBLN-0062CEZZ	J	Balun, BLN-0062CE	AC
FB4021	RBLN-0062CEZZ	J	Balun, BLN-0062CE	AC

SWITCHES

SW4002	QSW-K0087GEZZ	J	Switch, Select▼	AC
SW4003	QSW-K0087GEZZ	J	Switch, Select▲	AC
SW4004	QSW-K0087GEZZ	J	Switch, Menu	AC
SW4006	QSW-K0087GEZZ	J	Switch, AV Input	AC
SW4007	QSW-K0087GEZZ	J	Switch, Vol(-)	AC
SW4008	QSW-K0087GEZZ	J	Switch, Vol(+)	AC
S4701	QSW-P0614CEZZ	J	Switch	AF

MISCELLANEOUS PARTS

	PSLDM4647CEFW	J	Shield	AD
	QEARZ0043CEZZ	J	Ground-Part	AC
J4001	QJAKJ0063CEZZ	J	Jack	AF
P4004	QPLGN1320REZZ	J	Plug, 13Pin	AC
P4005	QPLGN0278GEZZ	J	Plug, 2Pin	AA
RMC4002	RRMCU0239CEZZ	J	Remote Receiver	AG

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
SUPPLIED ACCESSORIES					△ 6	KLMP-0113CEZZ	J	Lamp, Lower	BB
△	LHLDW1028GEZZ	J	Cable Clamp	AB	7	LANGQ9206CEFW	J	Fixing Angle, x4	AF
	QACCK0002TAZZ	J	AC Cord	AM	8	PGIDM0058CEZZ	J	Lamp Guide Plate	BK
	RRMCG1621CESA	J	Remote Control	AU	9	PSHEP0179CEZZ	J	Diffusion Sheet, x2	AS
	SSAKA0160CEZZ	J	Operation Manual	AB	10	PSHEP0180CEZZ	J	Reflection Polarizing Sheet	BR
△	TiNS-7266CEZZ	J	Polyethylene Bag	AY	11	PSHEP0186CEZZ	J	Reflection Sheet-1	AN
	UADP-0218CEZZ	J	Operation Manual	BU	12	PSHEP0187CEZZ	J	Reflection Sheet-2	AN
PACKING PARTS (NOT REPLACEMENT ITEM)					13	PSHEP0222CEZZ	J	ITO Sheet	AZ
	SPAKC5503CEZZ	—	Packing Case	—	14	PSHEP0223CEZZ	J	Lamp Reflection Sheet-1	AL
	SPAKF0421CEZZ	—	Reinforcing Pad	—	15	PSHEP0224CEZZ	J	Lamp Reflection Sheet-2	AL
	SPAKF0504CEZZ	—	Reinforcing Pad	—	16	PSLDM4653CEFW	J	Shield Panel	AT
	SPAKF0508CEZZ	—	Polyethylen Sheet	—	17	PSPAG0338CEZZ	J	Spacer	AB
	SPAKP0905CEZZ	—	Wrapping Paper	—	18	PSPAK0003CEZZ	J	Spacer-3, x2	AG
	SPAKX2940CEZZ	—	Buffer Material	—	19	PSPAK0004CEZZ	J	Spacer-4, x4	AB
	TCAUZ1039CEZZ	—	Carry Caution Card	—	20	PSPAZ0311CEZZ	J	Spacer-2	AF
	TLABK0023TAZZ	—	No. Label	—	21	PSPAZ0381CEZZ	J	Spacer-1, x2	AF
CABINET PARTS LIST					22	QCNW-5299CEZZ	J	Connecting Cord	AH
1	CCABA2380CE08	J	Cabinet A Ass'y	BX	23	QCNW-5673CEZZ	J	Connecting Cord	AG
1-1	Not Available	—	Cabinet A	—	24	RLCDT0060CEZZ	J	LCD Unit	EP
1-2	GCOVA1808CEZZ	J	Cover, LED	AE	25	XBBSD30P06000	J	Screw, x8	AA
1-3	GCOVA1798CESA	J	Cover, Front (L)	AF	26	GCOVA1948CEKA	J	Tuner PWB Holder	AN
1-4	GCOVA1950CEKA	J	Cover, Front(R)	AG	28	LANGU9080CEFW	J	Reinforcing Angle	AP
1-5	GCOVA1932CESA	J	Cover, IR Filter	AC	30	LHLDW1173CEZZ	J	Wire Holder, x4	AD
1-6	GDORF2048CEKA	J	Front Door	AF	31	LX-BZ0120CEFF	J	Screw, for Stand, x4	AD
1-7	HDECA0763CESA	J	Decoration Panel	BW	32	PRDAR1552CEFW	J	Heat Sink, x2	AH
1-8	HiNDP5714CESA	J	Indicator	AD	35	PZETK0138CEZZ	J	Insulating Sheet	AH
1-9	HiNDP5715CESA	J	Indicator	AD	36	PSLDC3122CEFW	J	Shield	AF
1-10	JBTN-2069CEKA	J	Power Button	AF	37	QCNW-5153CEZZ	J	KZY SW-Main	AM
1-11	LX-HZ3111CEFN	J	Screw, x4	AB	46	QEARZ0017CEZZ	J	Ground-Part, x2	AC
1-12	MSPRC0203CEFW	J	Spring for Power Button	AC	47	QEARZ0039CEZZ	J	Ground-Part, x2	AD
1-13	MSPRP0204CEFW	J	Spring, for Door	AD	48	RSP-Z0107CEN7	J	Speaker (L)	BK
1-14	PMLT-0356CEZZ	J	Absorber	AB	49	RSP-Z0107CEN8	J	Speaker (R)	BK
1-15	PSHEP0027CEZZ	J	Sheet	AA	52	XBBSD30P06000	J	Screw, x12	AA
1-16	PSPAH0623CEZZ	J	Spacer, x6	AB	53	XBBSF30P04000	J	Screw, x4	AA
1-17	PSPAH0624CEZZ	J	Spacer, x2	AB	54	XBBSF30P08000	J	Screw, x6	AA
1-18	PSPAK0024CEKZ	J	Spacer	AC	55	XBBSF40P25000	J	Screw, x4	AA
1-19	PSPAZ0315CEZZ	J	Spacer	AD	56	XBPSD30P06JS0	J	Screw, x2	AA
1-20	QEARZ0026CEZZ	J	Grounding Part	AC	57	XEBSD30P08000	J	Screw, x8	AA
1-21	XESSF30P08000	J	Screw	AA	58	XEBSD40P10000	J	Screw, x2	AA
1-22	PSPAZ0316CEZZ	J	Spacer, x2	AD	59	XEBSD30P08000	J	Screw, x6	AA
2	CCABB2304CE01	J	Cabinet B Ass'y	BL	60	XEBSD40P16000	J	Screw, x5	AA
2-1	Not Available	—	Cabinet B	—	61	XTBSF30P12000	J	Screw, x4	AA
2-3	JHNDP0102CEKA	J	Handle	AT	62	CZETK0094CE01	J	Insulator	AH
2-4	LANGU9046CEFW	J	Fixing Angle	AF	63	CZETK0135CE02	J	Insulator	AG
2-5	LANGU9047CEFW	J	Fixing Angle, x2	AP	64	CZETK0135CE01	J	Insulator	AK
2-6	PMLT-0355CEZZ	J	Light Shielding Spacer, x2	AC	65	QCNW-5860CEZZ	J	Main (50FFC) Tuner	AH
2-7	PSPAG0342CE00	J	Spacer	AD	66	QCNW-5861CEZZ	J	Main (20FFC) Tuner	AG
2-8	PSPAG0343CE00	J	Spacer, x2	AC	67	CPNLS1031CE03	J	SP Net Unit(B/R)	BG
2-9	PSPAH0621CEZZ	J	Spacer, x3	AB	68	XNEDS30-24000	J	Nut	AA
2-10	PSPAH0624CEZZ	J	Spacer	AB	69	QCNW-5859CEZZ	J	Main<45FFC>SUB	AE
2-11	PSPAH0632CEZZ	J	Spacer, x2	AC	70	QCNW-5862CEZZ	J	Power 4 Connecte	AP
2-12	TCAUH1190CEZZ	J	Caution Label	AD	71	QCNW-5877CEZZ	J	SP-R	AE
2-13	XEBSD30P08000	J	Screw, x6	AA	72	QCNW-5910CEZZ	J	SP-L	AE
2-14	XEBSD40P10000	J	Screw, x3	AA	73	QCNW-5911CEZZ	J	P3904-P902	AD
2-15	HiNDP5716CESA	J	Model Label	AF	74	QCNW-5912CEZZ	J	P4005-P903	AD
2-16	TLABN0304CEZZ	J	No. Label	AF					
3	CCOVA1800CE02	J	Terminal Cover Ass'y	AT					
4	CCOVA1811CE01	J	Stand Ass'y	BR					
△ 5	KLMP-0112CEZZ	J	Lamp, Upper	BB					